This listing of claims will replace all prior revisions, and listings, of claims in the application.

Listing of Claims:

1. (Previously Presented) An internal combustion engine comprising:

a cylinder block having one or more cylinders;

a cylinder liner with a tubular shape, disposed inside said cylinder;

a piston reciprocating inside said cylinder liner and having a top land portion formed

of an outer periphery of the piston sandwiched between a piston head and an uppermost ring

groove; and

a liner installation ring forming a circular step portion inside the cylinder, and

disposed in said cylinder block or said cylinder liner in such a manner that a bottom face of

the liner installation ring faces to an uppermost portion of said cylinder liner, the circular step

portion protruding to an inner periphery of said cylinder liner, wherein:

said liner installation ring is disposed at a position in accordance with a top end

position of said top land portion when said piston reaches a top dead center;

a circular projection, in a tapered shape, inclining downwards to the inside of the

cylinder from a crosspoint of the bottom face of said liner attachment ring and the inner

periphery of said cylinder liner, is formed on the bottom face of said liner installation ring

along an inner peripheral end thereof;

an angle that a tapered surface of said projection forms with the inner periphery of

said cylinder liner is in a range of 45 degrees to 60 degrees; and

said liner installation ring is set to protrude from the inner periphery of said cylinder

liner in an inward direction at a length of 0.05 mm or more to 0.5 mm or less.

2. (Previously Presented) An internal combustion engine comprising:

a cylinder block having one or more cylinders;

a cylinder liner with a tubular shape, disposed inside said cylinder;

a piston reciprocating inside said cylinder liner and having a top land portion formed

of an outer periphery of the piston sandwiched between a piston head and an uppermost ring

groove; and

a liner installation ring forming a circular step portion inside the cylinder, and

disposed in said cylinder block or said cylinder liner in such a manner that a bottom face of

the liner installation ring faces to an uppermost portion of said cylinder liner, the circular step

portion protruding to an inner periphery of said cylinder liner, wherein:

said liner installation ring is disposed at a position in accordance with a top end

position of said top land portion when said piston reaches a top dead center;

said liner installation ring is set to protrude from the inner periphery of said cylinder

liner in an inward direction at a length of 0.05 mm or more to 0.5 mm or less;

a circular notch is formed on an internal diameter side of a contact face of said

cylinder block or said cylinder liner with said liner installation ring; and

a groove portion is formed below said circular step portion, being sandwiched

between the bottom face of said liner installation ring and said notch.

3. (Previously Presented) The internal combustion engine according to Claim 2,

wherein:

said notch is formed in a tapered shape, inclining downwards from the contact face

with said liner installation ring to the internal diameter side; and

an angle that the bottom face of said liner installation ring forms with a tapered surface of said notch is in a range of 45 degree to 60 degree.

4. (Currently Amended) The internal combustion engine according to any one of Claims

1 to 3 Claim 1, wherein:

a ring-side circular groove is formed in the inner periphery of said liner installation

ring in a peripheral direction of the ring.

5. (Previously Presented) An internal combustion engine comprising:

a cylinder block having one or more cylinders;

a cylinder liner with a tubular shape, disposed inside said cylinder;

a piston reciprocating inside said cylinder liner and having a top land portion formed

of an outer periphery of the piston sandwiched between a piston head and an uppermost ring

groove; and

a liner installation ring forming a circular step portion inside the cylinder, and

disposed in said cylinder block or said cylinder liner in such a manner that a bottom face of

the liner installation ring faces to an uppermost portion of said cylinder liner, the circular step

portion protruding to an inner periphery of said cylinder liner, wherein:

said liner installation ring is disposed at a position in accordance with a top end

position of said top land portion when said piston reaches a top dead center;

said liner installation ring is set to protrude from the inner periphery of said cylinder

liner in an inward direction at a length of 0.05 mm or more to 0.5 mm or less; and

a ring-side circular groove is formed in the inner periphery of said liner installation

ring in a peripheral direction of the ring.

(Currently Amended) The internal combustion engine according to any one of Claims 6.

1 to 5 Claim 1, wherein:

a piston-side circular groove is formed in the top land portion of said piston in a

peripheral direction of the piston.

7. (Currently Amended) The internal combustion engine according to Claim 4 or 5

Claim 4, wherein:

a piston-side circular groove is formed in the top land portion of said piston in a

peripheral direction of the piston in such a position to face to said ring-side circular groove

when said piston reaches the top dead center.

8. (Currently Amended) The internal combustion engine according to any one of Claims

1 to 7 Claim 1, wherein:

a piston-side circular groove is also formed in a second land portion in the peripheral

direction of the piston, the second land portion being positioned below the top land portion of

said piston and the uppermost ring groove.

9. (Currently Amended) The internal combustion engine according to any one of Claims

4 to 10 Claim 4, wherein:

a longitudinal section of at least one of said ring-side circular groove and said piston-

side circular groove is V-shaped such that a top face thereof is horizontal or upwardly

inclines to a bottom of the groove, and a bottom face thereof is tapered in such a manner that

it goes away from the bottom of the groove as it goes downward.

10. (Currently Amended) The internal combustion engine according to any one of Claims

1 to 9 Claim 1, wherein:

an external diameter of said liner installation ring is set to be larger than an external

diameter of an uppermost portion of said cylinder liner; and

a latch step portion is formed in the upper portion of said cylinder of said cylinder

block and latches said liner installation ring to restrain its downward movement.

11. (Previously Presented) The internal combustion engine according to Claim 10,

wherein:

the uppermost portion of said cylinder liner is positioned above the uppermost ring

groove when said piston reaches the top dead center; and

the uppermost portion of said cylinder liner is disposed below said latch step portion

with a distance.

12. (Currently Amended) The internal combustion engine according to any one of Claims

1 to 11 Claim 1, wherein

said liner installation ring has open parts in a peripheral direction thereof which face

to each other with a predetermined distance, in order to fix said liner installation ring on said

cylinder block or said cylinder liner by tension of the open parts separating from each other.

13. (Previously Presented) A liner installation ring to be applied to an internal

combustion engine that comprises a cylinder block having one or more cylinders with a latch

step portion in its/their upper portion(s), and a tubular cylinder liner disposed in said cylinder,

the liner installation ring being disposed in said latch step portion with its bottom face facing to an uppermost portion of said cylinder liner; while disposed, an inner peripheral end of the ring inwardly protruding from an inner periphery of said cylinder liner to said cylinder to form a circular step portion inside said cylinder, wherein:

a circular projection is provided in the bottom face along the inner peripheral end of the ring;

said projection is formed in a tapered shape such that it downwardly inclines to the inner periphery of the ring from a position of the inner periphery of the cylinder liner when the ring is disposed;

an angle that a tapered surface of said projection forms with the inner periphery of said cylinder liner is in a range of 45 degrees to 60 degrees; and

a length from a position of the inner periphery of the cylinder liner when said liner installation ring is disposed to the inner peripheral end of the disposed ring is set to be in a range of 0.05 mm to 0.5 mm.

14. (Previously Presented) A liner installation ring to be applied to an internal combustion engine that comprises a cylinder block having one or more cylinders with a latch step portion in its/their upper portion(s), and a tubular cylinder liner disposed in said cylinder, the liner installation ring being disposed in said latch step portion with its bottom face facing to an uppermost portion of said cylinder liner; while disposed, an inner peripheral end of the ring inwardly protruding from an inner periphery of said cylinder liner to said cylinder to form a circular step portion inside said cylinder, wherein

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a length from a position of the inner periphery of the cylinder liner when said liner

appropriate and the

installation ring is disposed to the inner peripheral end of the disposed ring is set to be in a

range of 0.05 mm to 0.5 mm; and

the liner installation ring has a ring-side circular groove in the inner periphery in a

peripheral direction of the ring.

15. (Previously Presented) The liner installation ring according to Claim 14, wherein

a longitudinal section of said ring-side circular groove is V-shaped such that a top

face thereof is horizontal or upwardly inclines to a bottom of the groove, and a bottom face

thereof is tapered in such a manner that it goes away from the bottom of the groove as it goes

downward.

16. (Currently Amended) The liner installation ring according to any one of Claim-13 to

15 Claim 13, wherein

the liner installation ring has open parts at a position in a peripheral direction of the

ring, the open parts facing to each other with a predetermined distance.

17. (Cancelled)

18. (Cancelled)